AMENDMENTS TO THE CLAIMS:

The following listing of claims replaces all prior versions, and listings, of claims in this application.

LISTING OF CLAIMS:

1. (Currently Amended) A digital image processing device comprising:
extraction means for extracting at least one document block that is digital
image data representing a portion of a scanned document, the scanned document
having document images and a background, the at least one document block
includes document image data and background image data, the document image
data represents some of the document images on the scanned document, wherein
all the document image data in the extracted at least one document block represents
fewer document images than all the document images that are present on the
scanned document;

generating means for generating character code data for character image data within the at least one document block;

reconstruction means for reconstructing the at least one document block in a specific shape based on the extracted at least one document block; and

layout means for laying out the character code data corresponding to the character code generated by the generating means within the at least one reconstructed document block to create a layout image in a computer for presentation of the image to a user;

wherein the extraction means extracts a plurality of document blocks, and the reconstruction means arranges the plurality of extracted document blocks into a single block reconstructed to the specific shape.

- 2. (Canceled)
- 3. (Currently Amended) A digital image processing device as claimed in claim 1, <u>comprising:</u>

extraction means for extracting at least one document block that is digital image data representing a portion of a scanned document, the scanned document having document images and a background, the at least one document block includes document image data and background image data, the document image data represents some of the document images on the scanned document, wherein all the document image data in the extracted at least one document block represents fewer document images than all the document images that are present on the scanned document;

generating means for generating character code data for character image data within the at least one document block;

reconstruction means for reconstructing the at least one document block in a specific shape based on the extracted at least one document block; and

layout means for laying out the character code data corresponding to the character code generated by the generating means within the at least one reconstructed document block to create a layout image;

wherein the specific image includes a character image of a headline and a character image of body text corresponding to the headline.

- 4. (Previously Presented) A digital image processing device as claimed in claim 3, further comprising headline character arrangement means for arranging character code data corresponding to the character image of the headline at a specific position within the at least one reconstructed document block.
- 5. (Currently Amended) A digital image processing device as claimed in claim 1, <u>comprising:</u>

extraction means for extracting at least one document block that is digital image data representing a portion of a scanned document, the scanned document having document images and a background, the at least one document block includes document image data and background image data, the document image data represents some of the document images on the scanned document, wherein all the document image data in the extracted at least one document block represents fewer document images than all the document images that are present on the scanned document;

generating means for generating character code data for character image data within the at least one document block;

reconstruction means for reconstructing the at least one document block in a specific shape based on the extracted at least one document block; and

layout means for laying out the character code data corresponding to the character code generated by the generating means within the at least one reconstructed document block to create a layout image;

wherein the reconstruction means adjusts a vertical or horizontal dimension of the at least one document block to a length approximating a natural integer multiple of a length of one column of multiple columns formed within the at least one document block.

- 6. (Previously Presented) A digital image processing device as claimed in claim 1, further comprising file generation means for generating an electronic file storing the character code data laid out by the layout means.
- 7. (Previously Presented) A digital image processing device as claimed in claim 1, further comprising a printer for printing the character code data laid out by the layout means on a recording substrate.
- 8. (Previously Presented) A digital image processing device as claimed in claim 1, further comprising a reader for optically reading an image of a document to obtain the image data to be processed.
- 9. (Currently Amended) A computer readable medium for storing a program that causes a computer to:

extract at least one document block that is digital image data representing a portion of a scanned document, the scanned document having document images

and a background, the at least one document block includes document image data and background image data, the document image data represents some of the document images on the scanned document, wherein all the document image data in the extracted at least one document block represents fewer document images than are present in the scanned document;

generate character code data for character image data within the at least one document block;

reconstruct the at least one document block in a specific shape based on the at least one extracted document block; and

laying out the generated character code data within the at least one reconstructed document block to create a layout image in a computer for presentation of the image to a user;

wherein a plurality of document blocks are extracted at the step of extracting, and the plurality of extracted document blocks are arranged into a single block reconstructed to the specific shape at the step of reconstructing.

- 10. (Canceled)
- 11. (Currently Amended) The program as claimed in claim 9, A computer readable medium for storing a program that causes a computer to:

extract at least one document block that is digital image data representing a portion of a scanned document, the scanned document having document images and a background, the at least one document block includes document image data and background image data, the document image data represents some of the

in the extracted at least one document block represents fewer document images
than are present in the scanned document;

generate character code data for character image data within the at least one document block;

reconstruct the at least one document block in a specific shape based on the at least one extracted document block; and

laying out the generated character code data within the at least one reconstructed document block to create a layout image;

wherein the specific image includes a character image of a headline and a character image of body text corresponding to the headline.

- 12. (Previously Presented) The program as claimed in claim 11, wherein the image processing further comprises a step of arranging the character code data corresponding to the character image of the headline at a specific position within the at least one reconstructed document block.
- 13. (Currently Amended) The program as claimed in claim 9, A computer readable medium for storing a program that causes a computer to:

extract at least one document block that is digital image data representing a portion of a scanned document, the scanned document having document images and a background, the at least one document block includes document image data and background image data, the document image data represents some of the document images on the scanned document, wherein all the document image data

in the extracted at least one document block represents fewer document images
than are present in the scanned document;

generate character code data for character image data within the at least one document block;

reconstruct the at least one document block in a specific shape based on the at least one extracted document block; and

laying out the generated character code data within the at least one reconstructed document block to create a layout image;

wherein at the step of reconstructing a vertical or horizontal dimension of the at least one document block is adjusted to a length approximating a natural integer multiple of a length of one column of multiple columns formed within the at least one document block.

- 14. (Previously Presented) The program as claimed in claim 9, wherein the image processing further comprises a step of generating an electronic file storing the character code data laid out at the step of laying out.
- 15. (Previously Presented) The program as claimed in claim 9, wherein the image processing further comprises a step of printing on a recording substrate the character code data laid out at the step of laying out.
- 16. (Previously Presented) The program as claimed in claim 9, wherein the image processing further comprises a step of reading an image of a document to obtain the image data to be processed.

17. (Currently Amended) A digital image processing method comprising the steps of:

extracting at least one document block that is digital image data representing a portion of a scanned document, the scanned document having document images and a background, the at least one document block includes document image data and background image data, the document image data represents some of the document images on the scanned document, wherein all the document image data in the extracted at least one document block represents fewer document images than are present in the scanned document;

generating character code data for character image data within the at least one document block;

reconstructing the at least one document block in a specific shape based on the extracted at least one document block; and

laying out the generated character code data within the reconstructed at least one document block to create a layout image in a computer for presentation of the image to a user:

wherein the extraction means extracts a plurality of document blocks, and the reconstruction means arranges the plurality of extracted document blocks into a single block reconstructed to the specific shape.

18. (Previously Presented) A digital image processing device as claimed in claim 1, wherein the extracted at least one document block is a marked portion of the entire image.

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19. (Previously Presented) A digital image processing device as claimed

in claim 1, wherein the extracted at least one document block is a headline and body

text of the entire image.

20. (Previously Presented) A digital image processing device as claimed

in claim 1, wherein the extracted at least one document block also includes a

photographic image area that is extracted and laid out with the character code data.

21. (Previously Presented) The program as claimed in claim 9, wherein

the extracted at least one document block is a marked portion of the entire image.

22. (Previously Presented) The program as claimed in claim 9, wherein

the extracted at least one document block is a headline and body text of the entire

image.

23. (Previously Presented) The program as claimed in claim 9, wherein

the extracted at least one document block also includes a photographic image area

that is extracted and laid out with the character code data.

24. (Previously Presented) A digital image processing method as claimed

in claim 17, wherein the extracted at least one document block is a marked portion of

the entire image.

25. (Previously Presented) A digital image processing method as claimed in claim 17, wherein the extracted at least one document block is a headline and body text of the entire image.

- 26. (Previously Presented) A digital image processing method as claimed in claim 17, wherein the extracted at least one document block also includes a photographic image area that is extracted and laid out with the character code data.
- 27. (Currently Amended) A digital image processing device comprising: an extraction circuit adapted to extract at least one document block that is digital image data representing a portion of a scanned document, the scanned document having document images and a background, the at least one document block includes document image data and background image data, the document image data represents some of the document images on the scanned document, wherein all the document image data in the extracted at least one document block represents fewer document images than are present in the scanned document;

a generating circuit adapted to generate character code data from character image data within the at least one document block;

a reconstruction circuit adapted to reconstruct the at least one document block in a specific shape based on the extracted at least one document block; and

a layout circuit adapted to lay out the character code data within the reconstructed at least one document block to create a layout image in a computer for presentation of the image to a user;

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wherein the extraction means extracts a plurality of document blocks, and the reconstruction means arranges the plurality of extracted document blocks into a

28. (Previously Presented) A digital image processing device as claimed in claim 1, wherein an area of the reconstructed at least one document block is the

same as a total area of the extracted at least one document block.

single block reconstructed to the specific shape.

- 29. (Previously Presented) The program as claimed in claim 9, wherein an area of the reconstructed at least one document block is the same as a total area of the extracted at least one document block.
- 30. (Previously Presented) A digital image processing method as claimed in claim 17, wherein an area of the reconstructed at least one document block is the same as a total area of the extracted at least one document block.
- 31. (Previously Presented) A digital image processing device as claimed in claim 27, wherein an area of the reconstructed at least one document block is the same as a total area of the extracted at least one document block.
- 32. (Currently Amended) A digital image processing device comprising <u>a</u> : at least one circuit for[[;]]:

extracting at least one document block that is digital image data representing a portion of a scanned document, the at least one document block

includes document image data and background image data, the document image data representing some of the document images on the scanned document, wherein all the document image data in the extracted at least one document block represents fewer document images than are present in the scanned document;

generating character code data from character image data within the at least one document block:

reconstructing the at least one document block in a specific shape based on the at least one extracted document block; and

laying out the character code data within the reconstructed at least one document block to create a layout image in a computer for presentation of the image to a user;

wherein the extraction means extracts a plurality of document blocks, and the reconstruction means arranges the plurality of extracted document blocks into a single block reconstructed to the specific shape.

33. (Currently Amended) A digital image processing device comprising <u>a</u> : at least one circuit for [[:]]:

extracting at least one document block that is digital image data representing a portion of a scanned document, the scanned document having document images and a background, the at least one document block includes document image data and background image data, the document image data represents some of the document images on the scanned document, wherein all the document image data in the at least one document block represents fewer document images than are present in the scanned document, the at least one document block

being identified by a perimeter and containing a specific image to be processed, the perimeter being established by the user beforehand;

generating character code data for character images within the at least one document block;

reconstructing the at least one document block in a specific shape based on the at least one extracted document block; and

laying out the character code data within the reconstructed at least one document block to create a layout image in a computer for presentation of the image to a user:

wherein the extraction means extracts a plurality of document blocks, and the reconstruction means arranges the plurality of extracted document blocks into a single block reconstructed to the specific shape.

- 34. (Previously Presented) The digital image processing device of claim 33, wherein the perimeter is established by the user before the extracting step on an original document using a drawing instrument.
 - 35. (Canceled)
 - 36. (Canceled)
- 37. (Previously Presented) A digital image processing device as claimed in claim 1, wherein the entire image includes at least one image in an area outside the at least one document block.

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38. (Previously Presented) The program of claim 9, wherein the entire

image includes at least one image in an area outside the at least one document

block.

39. (Previously Presented) A digital image processing method as claimed

in claim 17, wherein the entire image includes at least one image in an area outside

the at least one document block.

40. (Previously Presented) A digital image processing device as claimed

in claim 27, wherein the entire image includes at least one image in an area outside

the at least one document block.

41. (Canceled)

42. (Previously Presented) A digital image processing device as claimed

in claim 1, wherein the character code includes at least font size.

43. (Previously Presented) A computer readable medium as claimed in

claim 9, wherein the character code includes at least font size.

(Previously Presented) A digital image processing method as claimed 44.

in claim 17, wherein the character code includes at least font size.

45. (Previously Presented) A digital image processing device as claimed in claim 27, wherein the character code includes at least font size.

- 46. (Previously Presented) A digital image processing device as claimed in claim 32, wherein the character code includes at least font size.
- 47. (Previously Presented) A digital image processing device as claimed in claim 33, wherein the character code includes at least font size.

Claims from USP 5,193,056

- 1. A data processing system for managing a financial services configuration of a portfolio established as a partnership, each partner being one of a plurality of funds, comprising:
- (a) computer processor means for processing data;
- (b) storage means for storing data on a storage medium;
- (c) first means for initializing the storage medium;
- (d) second means for processing data regarding assets in the portfolio and each of the funds from a previous day and data regarding increases or decreases in each of the funds, assets and for allocating the percentage share that each fund holds in the portfolio;
- (e) third means for processing data regarding daily incremental income, expenses, and net realized gain or loss for the portfolio and for allocating such data among each fund;
- (f) fourth means for processing data regarding daily net unrealized gain or loss for the portfolio and for allocating such data among each fund; and
- (g) fifth means for processing data regarding aggregate year-end income, expenses, and capital gain or loss for the portfolio and each of the funds.
- 2. A data processing system as claimed in claim 1, wherein said first means further comprises:
- (a) means for inputting and storing on the storage medium pricing date data;
- (b) means for inputting and storing on the storage medium data regarding assets of each fund;
- (c) means for storing on the storage medium a value identifying the storage medium; and
- (d) means for creating locations on the storage medium for storing data regarding:
- (i) a previous day's total investments for the portfolio and each of the funds;
- (ii) adjusted total investments for the portfolio and each of the funds;
- (iii) allocation ratios indicative of the percentage share that each fund holds in the portfolio;
- (iv) daily incremental income, expenses, and realized gain or loss for the portfolio;
- (v) all daily activity for the portfolio and each of the funds; and

- (vi) breakage accumulation.
- 3. A data processing system as claimed in claim 2, wherein said second means further comprises:
- (a) means for verifying that the storage medium is correct by retrieving from the storage medium the value identifying the storage medium;
- (b) means for retrieving from the storage medium the pricing date data and allowing the pricing date data to be corrected if necessary;
- (c) means for inputting and storing on the storage medium the data regarding increases or decreases in each of the funds' assets;
- (d) means for retrieving from the storage medium the data regarding a previous day's total investments; and
- (e) means for calculating and storing on the storage medium the data regarding adjusted total investments and allocation ratios.
- 4. A method as claimed in claim 3, wherein said third means further comprises:
- (a) means for verifying that the storage medium is correct by retrieving from the storage medium the value identifying the storage medium;
- (b) means for retrieving from the storage medium the pricing date data and for allowing the pricing date data to be corrected if necessary;
- (c) means for allowing retrieval from the storage medium of any previously input data regarding daily incremental income, expenses, and net realized gain or loss;
- (d) means for inputting and for storing on the storage medium the data regarding daily incremental income, expenses, and net realized gain or loss;
- (e) means for retrieving from the storage medium the data regarding adjusted total investments and allocation ratios; and
- (f) means for computing data representing prepricing assets for the portfolio and each of the funds.
- 5. A data processing system as claimed in claim 4, wherein said fourth means further comprises:
- (a) means for verifying that the storage medium is correct by retrieving from the storage medium the value identifying the storage medium;
- (b) means for retrieving from the storage medium the pricing date data and allowing the pricing date data to be corrected if necessary;

- (c) means for inputting data representing net unrealized gain or loss for the portfolio;
- (d) means for retrieving from the storage medium the data regarding adjusted total investments and allocation ratios;
- (e) means for retrieving from the storage medium the data regarding daily incremental income, expenses, and net realized gain or loss;
- (f) means for retrieving from the storage medium the data representing breakage accumulation;
- (g) means for calculating and for storing on the storage medium data regarding end of day assets for the portfolio and each of the funds;
- (h) means for storing on the storage medium updated data regarding breakage accumulation; and
- (i) means for storing on the storage medium data regarding all daily activity for the portfolio and each of the funds.
- 6. A data processing system as claimed in claim 5, wherein said fifth means further comprises:
- (a) means for verifying that the storage medium is correct by retrieving from the storage medium the value identifying the storage medium;
- (b) means for retrieving from the storage medium the data regarding all daily activity for the portfolio and each of the funds;
- (c) means for calculating and processing the data regarding all daily activity to obtain data regarding aggregate year-end income, expenses, and capital gain or loss for the portfolio and each of the funds; and
- (d) means for storing on the storage medium the data regarding aggregate year-end income, expenses, and capital gain or loss.